



EBTA II GUI-Web User Guide MLT Request Feature Addendum

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Version 1.3

CONFIDENTIAL

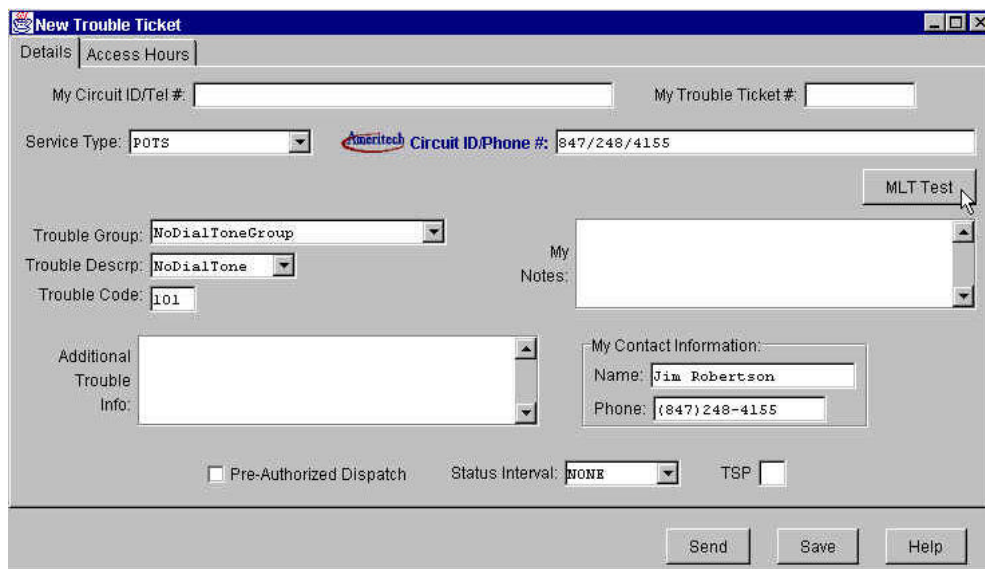
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Requesting MLT Test

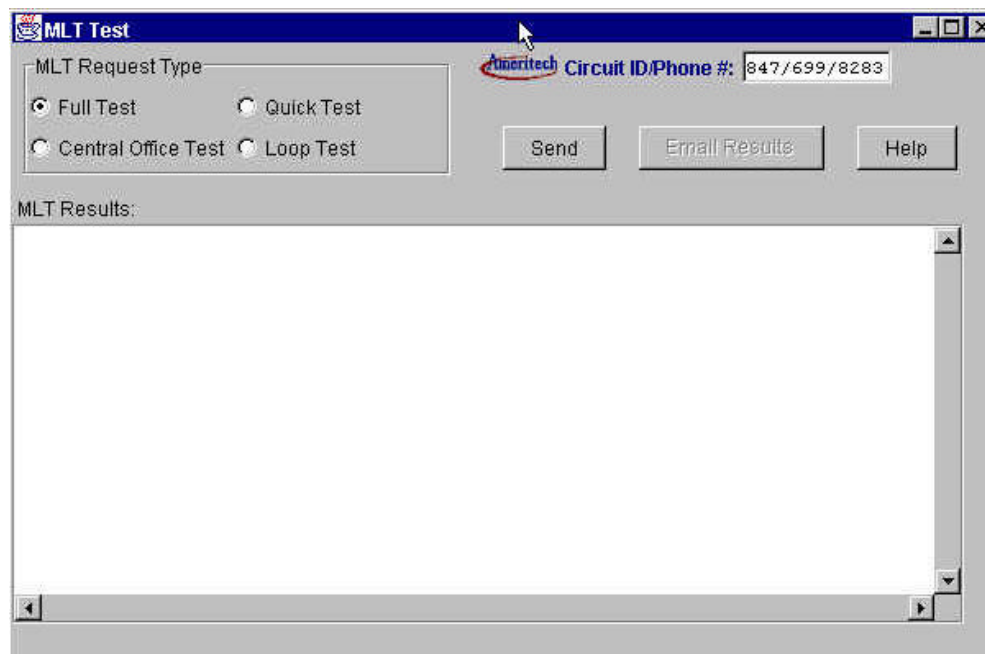
CLEC customers may submit Mechanized Loop Test (MLT) requests on Resold POTS services obtained from Ameritech. Requests on POTS services that carry the CLEC customer ACNA in Ameritech's OSS and currently do not have an Open Trouble Report pending may be tested.

Note: this functionality is not available to IXC or Wireless customers.

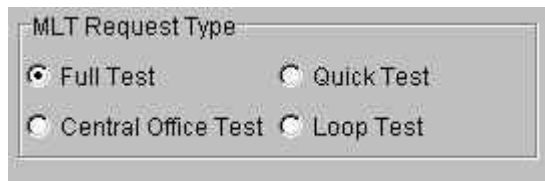
To request an MLT Test, a CLEC customer would, from the **New Trouble Ticket** screen, select POTS as the Service Type and populate the 10 digit POTS number in the Ameritech Circuit ID/Phone # field. The **MLT Test** button then becomes active.



Selecting the **MLT Test** button activates the **MLT Test** screen.



On the **MLT Test** screen the user selects the desired MLT Test from the four choices available in the **MLT Request Type** selection area.



MLT Request Type

☒ Full Test ☐ Quick Test

☐ Central Office Test ☐ Loop Test

Each of the four choices returns different combinations of MLT Test component values.

Full Test

The Full test starts a series of tests that do an extensive analysis of the entire line. This includes both the Central Office and Loop portions of the line. Many individual tests are run and the most important results are displayed in the summary message. In the Loop portion of the line, MLT checks for AC and DC faults. In the Central Office portion, it checks the Line Circuit and Dial Tone. The results may also include many other types of information about the line.

Quick Test

The Quick test starts a "quick" series of electrical measurements of the loop portion of the line. Quick does not run every test that Full does. For instance, it does not count ringers or thermistors, or check the line circuit or longitudinal balance. The results of a Quick test do not include a VER Code or Detailed Summary information.

Central Office Test

The Central Office test initiates a series of tests on the customer's Line Circuit in the Central Office portion of the line. The loop portion of the line is disconnected during a Central Office test.

Loop Test

The Loop test starts a series of tests that do an extensive analysis of Loop portion of the line. The Loop test does every test that the Full does except the Line Circuit and the Draw and Break Dial Tone tests.

The 10 digit POTS number in the Ameritech Circuit ID/Phone # field is pre-populated from the **New Trouble Ticket** screen.



Ameritech Circuit ID/Phone #: 847/248/4155

The value in the MLT Test screen's Ameritech Circuit ID/Phone # field may be overtyped to submit a test on a different POTS number. Changing this field also changes the Ameritech Circuit ID/Phone # field on the **New Trouble Ticket** screen.

Three function buttons, **Send**, **Email Results**, and **Help** are available on the **MLT Test** screen. The **Send** button sends the selected MLT Test request to the EB System for processing. A text box is displayed indicating "Sending MLT request".



The MLT Test usually takes 45 – 60 seconds to process. When the MLT System is busy, results may take longer to be returned. Successful MLT Test results appear in the MLT Results box.

MLT Test

MLT Request Type

☒ Full Test ☐ Quick Test

☐ Central Office Test ☐ Loop Test

Ameritech Circuit ID/Phone #: 847/699/8283

Send Email Results Help

MLT Results:

```

VER HARD SHORT T-R
MLT:
DC Signature
Kohms      Volts      T-R
-----
31          0          T-R
1396        0          T-G
3500        0          R-G
AC Signature
Kohms      Rngs      T-R
-----
0          0          T-R
0          0          T-G
0          0          R-G
Central Office      Balance      Loop Length
-----
LINE CKT OK        CAP: 0 %      0 FT Total
DIAL TONE OK        LONG: 0 DB
  
```

Scroll bars are available to view the contents of the MLT Results box. After the MLT Test results appear, the **Email Results** button becomes active. The **Email Results** button brings up a dialog box in which the email address from the User's Preferences window is defaulted (if populated). The user is allowed to over-type the default information with any Internet email address. The EB system does not retain any of the MLT Test results, if you wish to retain the results, use the Email Results feature.

Email Results

Email results to ...

james.l.robertson@ameritech.com

OK Cancel

Selecting OK from the Email Results dialog box causes the information contained in the MLT Results box to be sent to the address specified. The **Help** button brings up the online help file. To close the MLT Test window use the windows close button (X) in the upper right hand corner of the window.

MLT Test Contents

All contents of the MLT TV Mask starting with the VER line, except the fields comprising the Craft DC Signature are displayed in the MLT Results box located in the MLT Test window.

VER (R)

MLT: DC SIGNATURE AC SIGNATURE
 KOHMS VOLTS KOHMS RNGRS
 (B) T-R (C) (Q) T-R
 (F) (G) T-G (H) (U) T-G
 (K) (L) R-G (M) (V) R-G

CENTRAL OFFICE BALANCE
 LINE CKT (S) CAP (N) LOOP LENGTH= (P)
 DIAL TONE (T) LONG (O)
 (W)

The bold letters in parenthesis above identify the approximate locations of values defined in the Field Definitions table below.

Field Definitions

Field Designation	Description
FIELD (B)	MLT DC SIGNATURE KOHMS reading for the T-R resistance.
FIELD (C)	AC SIGNATURE KOHMS reading for the T-R resistance.
FIELD (F)	MLT DC SIGNATURE KOHMS reading for the T-G resistance.
FIELD (G)	MLT DC SIGNATURE VOLTS reading for the T-G foreign voltage. (Up to 4 characters, usually a negative (-) whole number or 0)
FIELD (H)	AC SIGNATURE KOHMS reading for the T-G resistance.
FIELD (K)	MLT DC SIGNATURE KOHMS reading for the R-G resistance.
FIELD (L)	MLT DC SIGNATURE VOLTS reading for the R-G foreign voltage. (Up to 4 characters, usually a negative (-) whole number or 0)
FIELD (M)	AC SIGNATURE KOHMS reading for the R-G resistance.
FIELD (N)	Capacitance (CAP) BALANCE reading of the T-R cable pair (%).
FIELD (O)	Longitudinal (LONG) BALANCE reading of the T-R cable pair (dB).
FIELD (P) (Distance)	The LOOP LENGTH of the customer's line given in feet if the VER for the test is OK. Otherwise, the OPEN DISTANCE FROM CO is given in feet to indicate the distance to the fault location from the serving CO. In addition, MLT does not give the distance to the open when the open is inside the CO.
FIELD (Q)	Ringer between T-R. If the ringer is placed between the T-R results will return "1" (Yes) or "0" (No).
FIELD (R)	Summary VER Test value and description.
FIELD (S)	Central Office Test Results. Line Circuit status.
FIELD (T)	Central Office Test Results. Dial Tone status.
FIELD (U)	Ringer between T-G. If the ringer circuitry is placed between the T-G results will return "YES" or any "numeric"; otherwise a blank (i.e., for NO).
FIELD (V)	Ringer between R-G. If the ringer circuitry is placed between the R-G results will show "YES" or any "numeric"; otherwise a blank (i.e., for NO).
FIELD (W)	Line 24 - LMOS ERROR Message. Note: Most ERROR messages have a corresponding VER code with a narrative in the summary field. These are considered 'valid' tests.

Field Definition Key

Abbreviation	Definition
T-G	Tip - Ground
T-R	Tip - Ring
R-G	Ring - Ground

Summary Descriptions

Following are summaries of the output components from the four MLT Test Requests. Note that test results vary according to the specific facility being tested. For this reason all components may or may not be present in any specific facility test results.

Full Test

DC Signature	Tip to ground resistance	Field F
DC Signature	Tip to ground voltage	Field G
DC Signature	Ring to ground resistance	Field K
DC Signature	Ring to ground voltage	Field L
DC Signature	Tip to ring resistance	Field B
AC Signature	Ringers - 0 or 1	Field Q or U or V
AC Signature	Tip to ground resistance	Field H
AC Signature	Ring to ground resistance	Field M
AC Signature	Tip to ring resistance	Field C
Balance	Capacitive (percent)	Field N
Balance	Longitudinal (decibels)	Field O
Loop (either one)	Total loop Open distance from the CO	Field P
Central Office	Line circuit status	Field S
Central Office	Dial tone status	Field T

Quick Test

DC Signature	Tip to ground resistance	Field F
DC Signature	Tip to ground voltage	Field G
DC Signature	Ring to ground resistance	Field K
DC Signature	Ring to ground voltage	Field L
DC Signature	Tip to ring resistance	Field B
AC Signature	Ringers - 0 or 1	Field Q or U or V
AC Signature	Tip to ground resistance	Field H
AC Signature	Ring to ground resistance	Field M
AC Signature	Tip to ring resistance	Field C
Balance	Capacitive (percent)	Field N
Balance	Longitudinal (decibels)	Field O
Loop (either one)	Total loop Open distance from the CO	Field P

Central Office

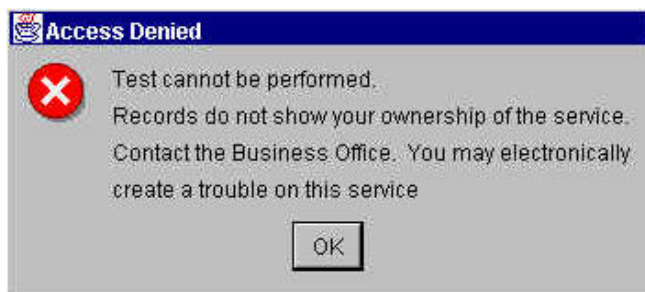
DC Signature	Tip to ground resistance	Field F
DC Signature	Tip to ground voltage	Field G
DC Signature	Ring to ground resistance	Field K
DC Signature	Ring to ground voltage	Field L
DC Signature	Tip to ring resistance	Field B
AC Signature	Ringers - 0 or 1	Field Q or U or V
AC Signature	Tip to ground resistance	Field H
AC Signature	Ring to ground resistance	Field M
AC Signature	Tip to ring resistance	Field C
Central Office	Line circuit status	Field S
Central Office	Dial tone status	Field T

Loop Test

DC Signature	Tip to ground resistance	Field F
DC Signature	Tip to ground voltage	Field G
DC Signature	Ring to ground resistance	Field K
DC Signature	Ring to ground voltage	Field L
DC Signature	Tip to ring resistance	Field B
AC Signature	Ringers - 0 or 1	Field Q or U or V
AC Signature	Tip to ground resistance	Field H
AC Signature	Ring to ground resistance	Field M
AC Signature	Tip to ring resistance	Field C
Balance	Capacitive (percent)	Field N
Balance	Longitudinal (decibels)	Field O
Loop (either one)	Total loop Open distance from the CO	Field P

Error Messages

As mentioned previously, requests on POTS services that carry the CLEC customer ACNA in Ameritech's OSS and currently do not have an Open Trouble Report pending may be tested. If a CLEC customer submits a request on a POTS service that does not carry their ACNA, the following error message is returned:



A New Trouble Ticket request can still be sent on the circuit and may be accepted by Ameritech Work Centers. Work Center Technicians will identify ownership of the service and respond in accordance with current procedures.

If a CLEC customer submits a request on a POTS service that currently has an Open Trouble Ticket pending, the following error is returned:



A New Trouble Ticket request can still be sent on the circuit and may result in a Late Bonded Ticket or electronic reassignment to the existing ticket.

If a CLEC customer submits a request on a POTS telephone number not found in Ameritech records, the following error message is returned:



If this error message is received, please check the number, a New Trouble Ticket request on this number would not be accepted by the Ameritech EB System.

Understanding MLT Test Results

The MLT Test Feature was added to Ameritech's Electronic Bonding Trouble Administration System at the request of our CLEC customers. Understanding the results provided requires considerable technical expertise with the use of the Lucent Technologies™ Mechanized Loop Test system. It is expected that Ameritech's customers have or will obtain the expertise necessary to understand these results independently.